



PATENT
Attorney Docket No. PXE-001C1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Boyd *et al.* CONF. NO.: 6535
SERIAL NO.: 10/764,328 GROUP NO.: 1614
FILING DATE: January 23, 2004 EXAMINER: Not yet assigned
TITLE: Methods and Composition for Diagnosing and Treating
Pseudoxanthoma Elasticum and Related Conditions

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the publications are enclosed.

REMARKS

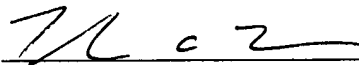
In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

Respectfully submitted,



Thomas A. Turano
Attorney for Applicants
Testa, Hurwitz, & Thibault, LLP
High Street Tower
125 High Street
Boston, Massachusetts 02110

Date: August 31, 2004
Reg. No. 35,722

Tel. No.: (617) 248-7738
Fax No.: (617) 248-7100



FORM PTO – 1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: PXE-001C1 APPLICANT(S): Boyd <i>et al.</i> SERIAL NO.: 10/764,328 FILING DATE: January 23, 2004 GROUP: 1614					
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C6	Bacchelli <i>et al.</i> , (1999), "Identification of Heterozygote Carriers in Families with a Recessive Form of Pseudoxanthoma Elasticum (PXE)," <u>Modern Pathology</u> , 12(12):1112-1123.							
	C7	Bergen <i>et al.</i> , (2000), "Mutations in ABCC6 cause pseudoxanthoma elasticum," <u>Nature Genetics</u> , 25(2):228-231.							
	C8	Cai <i>et al.</i> , (2000), "A 500-kb region on chromosome 16p13.1 contains the pseudoxanthoma elasticum locus: high-resolution mapping and genomic structure," <u>Journal of Molecular Medicine</u> , 78(1):36-46.							
	C9	Germain <i>et al.</i> , (2000), "Homozygosity for the R1268Q Mutation in MRP6, the Pseudoxanthoma Elasticum Gene, Is Not Disease-Causing," <u>Biochemical and Biophysical Research Communications</u> , 274(2):297-301.							
	C10	Germain <i>et al.</i> , (2000), "Identification of Two Polymorphisms (c189G>C; c190T>C) in Exon 2 of the Human MRP6 Gene (ABCC6) by Screening of Pseudoxanthoma Elasticum Patients: Possible Sequence Correction?" <u>Human Mutation</u> , Mutation and Polymorphism Report #174, Online (3 pages).							
	C11	Hopper <i>et al.</i> , (2001), "Analysis of the structure and expression pattern of MRP7 (ABCC10), a new member of the MRP subfamily," <u>Cancer Letters</u> , 162(2):181-191.							
	C12	Kool <i>et al.</i> , (1999), "Expression of Human MRP6, a Homologue of the Multidrug Resistance Protein Gene MRP1, in Tissues and Cancer Cells," <u>Cancer Research</u> , 59:175-182.							
	C13	Le Saux <i>et al.</i> , (2000), "Mutations in a gene encoding an ABC Transporter cause pseudoxanthoma elasticum," <u>Nature Genetics</u> , 25: 223-227.							
	C14	Le Saux <i>et al.</i> , (2001), "A Spectrum of ABCC6 Mutations Is Responsible for Pseudoxanthoma Elasticum," <u>American Journal of Human Genetics</u> , 69: 749-764.							
	C15	Mao <i>et al.</i> , (1999), "ATPase activity of purified and reconstituted multidrug resistance protein MRP1 from drug-selected H69AR cells," <u>Biochimica et Biophysica Acta</u> , 1461:69-82.							
EXAMINER					DATE CONSIDERED				

FORM PTO – 1449		ATTORNEY DOCKET NO.: PXE-001C1	
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Boyd <i>et al.</i>	
		SERIAL NO.: 10/764,328	
		FILING DATE: January 23, 2004 GROUP: 1614	
OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	C16	Perdu <i>et al.</i> , (2000), "Identification of Novel Polymorphisms in the pM5 and MRP1 (ABCC1) Genes at Locus 16p13.1 and Exclusion of Both Genes as Responsible for Pseudoxanthoma Elasticum," <u>Human Mutation</u> , Mutation in Brief #388, Online (5 pages).	
	C17	Quaglino <i>et al.</i> , (2000), "Abnormal phenotype of in vitro dermal fibroblasts from patients with pseudoxanthoma elasticum (PXE)," <u>Biochimica et Biophysica Acta</u> , 1501:51-62.	
	C18	Renie <i>et al.</i> , (1984), "Pseudoxanthoma Elasticum: High Calcium Intake in Early Life Correlates With Severity," <u>American Journal of Medical Genetics</u> , 19:235-244.	
	C19	Ringpfeil <i>et al.</i> , (2000), "Mutations in the MRP6 Gene Cause Pseudoxanthoma Elasticum," <u>The Journal of Investigative Dermatology</u> , 115(2):332, Abstract HB1.	
	C20	Sapadin <i>et al.</i> , (1998), "Periumbilical pseudoxanthoma elasticum associated with chronic renal failure and angioid streaks – apparent regression with hemodialysis," <u>Journal of the American Academy of Dermatology</u> , 39(2):338-344.	
	C21	Struk <i>et al.</i> , (2000), "Mutations of the gene encoding the transmembrane transporter protein ABC-C6 cause pseudoxanthoma elasticum," <u>Journal of Molecular Medicine</u> , 78(5):282-286.	
	C22	Tybulewicz <i>et al.</i> , (1991), "Neonatal Lethality and Lymphopenia in Mice with a Homozygous Disruption of the <i>c-abl</i> Proto-Oncogene," <u>Cell</u> , 65:1153-1163.	
EXAMINER		DATE CONSIDERED	